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1. Document ID: JP 63221618 A

L2: Entry 1 of 2

File: JPAB

Sep 14, 1988

PUB-NO: JP363221618A

DOCUMENT-IDENTIFIER: JP 63221618 A

TITLE: RESIST HEATER

PUBN-DATE: September 14, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

ISHIKAWA, HIDEKAZU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI ELECTRIC CORP

APPL-NO: JP62055912

APPL-DATE: March 10, 1987

US-CL-CURRENT: 219/553

INT-CL (IPC): H01L 21/30; G03F 7/00

ABSTRACT:

PURPOSE: To control temperature rising characteristics freely and improve the temperature stability by a method wherein a table on which a semiconductor substrate is placed in a lithography process and a light source which heats a resist layer on the semiconductor substrate placed on the table by radiation heating are provided.

CONSTITUTION: An infrared radiation is applied to a wafer after exposure. By inputting the temperature rising characteristics of the wafer to a controller 5, the controller 5 controls the irradiation intensity of an infrared lamp 4. At that time, the temperature and illuminance are monitored by a temperature sensor 6 and an illuminance meter 7 and fed back to the controller 5 so as to perform feedback control for obtaining the optimum temperature rising process. The irradiation intensity of the infrared lamp 4 is controlled by the temperature sensor 6, the illuminance sensor 7 and the controller 5. If post-exposure baking is carried out in the above mentioned manner, the pattern of a resist layer with an excellent cross-sectional profile can be obtained in a developer.

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2. Document ID: JP 63221618 A

L2: Entry 2 of 2

File: DWPI

Sep 14, 1988

DERWENT-ACC-NO: 1988-302922
DERWENT-WEEK: 198843
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TITLE: Resist heater enabling small step temp. rise - uses radiation heat transfer resulting from light emitted from source NoAbstract dwg 1/3

PATENT-ASSIGNEE:

ASSIGNEE	CODE
MITSUBISHI DENKI KK	MITQ

PRIORITY-DATA: 1987JP-0055912 (March 10, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 63221618 A</u>	September 14, 1988		002	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP63221618A	March 10, 1987	1987JP-0055912	

INT-CL (IPC): G03F 7/00; H01L 21/30

ABSTRACTED-PUB-NO:

EQUIVALENT-ABSTRACTS:

TITLE-TERMS: RESIST HEATER ENABLE STEP TEMPERATURE RISE RADIATE HEAT TRANSFER RESULT LIGHT EMIT SOURCE NOABSTRACT

DERWENT-CLASS: P84 U11

EPI-CODES: U11-C04A1; U11-C04A2; U11-C04D;

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